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US-PAT-NO: 6121436

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TITLE: Antifungal polypeptide and methods for controlling plant pathogenic fungi

DATE-ISSUED: September 19, 2000

INVENTOR-INFORMATION:

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US-CL-CURRENT: 536/23.6; 536/24.3

CLAIMS:

What is claimed is:

1. An isolated or synthetic nucleic acid segment that encodes an alfalfa antifungal polypeptide comprising the amino acid sequence of SEQ ID NO:2 or SEQ ID NO:14.
2. An isolated or synthetic nucleic acid segment that comprises the nucleic acid sequence of SEQ ID NO:13.
3. An isolated or synthetic nucleic acid segment that comprises the nucleic acid sequence from position 105 to 239 of SEQ ID NO:13.
4. The nucleic acid segment of claim 1 further defined as comprising the nucleic acid sequence of SEQ ID NO:10.
5. An isolated or synthetic DNA molecule comprising a nucleotide sequence selected from the group consisting of:
 - a) the nucleotide sequence of FIG. 1 (SEQ ID NO:10 from position 18 to 507);
 - b) the nucleotide sequence of SEQ ID NO:13;
 - c) the nucleotide sequence of SEQ ID NO:13 from position 105 to 239;
 - d) a nucleotide sequence which encodes the same peptide as that encoded by the nucleotide sequence of a), b) or c); and
 - e) the complement of any of a), b), c) or d).
6. The nucleic acid segment of claim 1 further defined as an RNA segment.
7. An isolated or synthetic nucleic acid segment selected from the group

consisting of:

- a) the nucleotide sequence of any of SEQ ID NO:3, 5, 6, 7, 9, 10 or 13;
- b) the complement of any of SEQ ID NO:3, 5, 6, 7, 9, 10 or 13; and
- c) a nucleotide sequence which encodes the same peptide product as that encoded by any of SEQ ID NO:3, 5, 6, 7, 9, 10 or 13.